L H. Number	tts <sup>©</sup> Search Text	'DB	Time stamp
	157 [ 157 144 ]	MSPAT; MS-PGPUB; HSO; JPO; DEPWENT; IBM TIE	11:35
-	247 - 257 (152)	MSEAT; MS-PGHUB; EPC; JPC; DERWENT; IBM TUB	2001/06/08 10:5:
-	172 - 157 143	USPAT; US-PGPUB; EFO; JPO; DERWENT; 1BM TUB	2001/06,08 10:54
<del>-</del>	117   057/164	USPAT; US-PGPUB; EEO; JPO; DEPWENT; IEM TOB	2001 (16.08 10:54
-	76 257/185	(SEAT; MS-PGPUB; PPO; JPO; LEPWENT; IBM_TDB	2001/06/08 10:54
- (	516 (257/110 or 257/144 or 257/152 or 257/163 or 257,164 or 257/165) and @pd<19980717	USPAT; US-PGPUB; EPC; JPC; DEPWENT; IBM_TIPE	2001/06/10 ±2:45
-	4 +0257/110 or 257/144 or 257/152 or 257/163 or 257/164 or 257/165) and gpd:19980717) and (selenium or sulfur)	USEAT; US-PGPUB; EBO; CPO; DEPWENT; JEM_TIB	2001;(6;08 12:10
. (	516 (2577.10 or 257/144 or 257/152 or 257/163 or 357 164 or 357/165) and Apd<19980717	USPAT; USPECUB; EPO; GPC; DEPWENT; IBM TIP	2001 - 66, 08 13:4년
- !	576 (257/110 or 257,144 or 257/152 or 257/163 or 357,164 or 357/165) and @pd<19970717		2001 06;10 13:5;
+	169 + 257: 11 or 257,144 or 257,152 or 257,160 or 257,164 or 257,165) and gpd:(19070717) and (stop\$5 or buffer\$3 or phosphor\$2 or arsenic)	USEAT; USEPGRUB; EPO; GFO; DEPWENT; IBM TIB	2001 706 10 14:34
-	5 supp\$4 auj2 buffer and thyristor\$1	MSPAT; MS-PGFUB; BEO; GPC; DERWENT; IBM TOB	2001 06 10 14:38
-	25 + 257°110 or 297/144 or 257′152 or 257′16. or 357′164 or 257/165) and gpd::9970717) and (stop\$5 or buffer\$3) and (phosphor\$3 or arsenia)	USEAT; USEPGIUB; EEC; GEC; DERWENT; IBM TOB	2001 (36°10 15:00
-	5 energy adj level\$1 near (phosphorus or arsenic or selenium or sulfur) near dop\$4	USEAT; USEAT; EPO; CFO; DEPWENT; IBM_TDB	2001/06/10 15:47

•			TIDDAM.	. 2021 (20110
7	ì	ionization ad; energy near (phosphorus or arsenic or selenium or sulfur) near dop\$4	USPAT; US-PGPUB; EPO; JPC; DERWENT;	2001 (06,10 16:4
			IBM_TDB	6021 65 11
-	292	(sulfur with selenium) and 257 \$3.cdls.	USEAT; US-PGEUE;	2001 06:11 07:40
			EPO; JPO; DERWENT;	
	C 7	continuous salannas and 257 62 gala	IBM_TIB USPAT;	2101/(6/10
-	5 /	(sulfur with selenium) and 257 \$3.ccls. and emitter\$1	US-PGPUB;	16:40
			EPO: JEO: DERWENT:	
	99	(sulfur with selenium) and 257 \$3.ccls.	IBM_THB USBAT;	2001 (06, 10
	0 1	and band adj gap	US-PGPUB; EPO; JPO;	16:50
			DERWENT;	
	14	((sulfur with selenium) and 257/\$3.ccls.	IBM_TIB USPAT;	2001/06/10
		and emitter\$1) and ((sulfur with selenium) and 257/\$3.ccls. and band adj	US-PGPUB; EPO; JPO;	1度:50
		deb;	DERWENT; IBM TLB	
-	.4	(((sulfur with selenium) and 257/\$3.ccls. and emitter\$1) and (+sulfur with	USPAT; US-PGFUB;	2001/06/11 07:34
		selenium) and 257/\$3.ccls. and band adj	EPO; JPO;	07.34
		gap)) and dopant and (buffer or stop34)	FERWENT; FIBM_TDB	
_	2	ionization ad) energ\$3 with sulfur with (dopant or impurit\$3 or foreign)	USPAT; US-PGPUP;	2001-06/10 17:07
		, angusta an angus an an an an angus	EPC; JPC; DEPWENT;	
	2.3		IBM TIB	2011/06 10
-	37	dopant and (selenium or sulfur) and emitter and (buffer ad) layer or stop\$4	MS-PGHUE,	17:57
		adj zone)	EPC; JPC; DEPWENT;	
_	Ú	(buffer adj layer or stop\$4 adj zone)	IBM_TUB VSEAT;	2371 (6 10
		same dopant same (selenium or sulfur) same ionization adj energ\$3	TS-PGPTE; EPD; CPC;	15:0.
		James Tollingers day ellergy	DEPWENT;	
~	Ō	(buffer ad) layer or stop\$4 ad) zone)	MERĀD.	2011 166 10
		same (selenium or sulfur) same ionidation aug energo)	EPD: JPD:	13:01
			CERWENT; IBM_TDB	
-	3	odopant or impurit\$3) same (selenium or sulfur) same ionization adj energ\$5	TSPĀI: Tā-PGHTB;	2001/06/10 13:00
			BERN JERN BERWENT:	
	=,		ISM TLB	2001 (2001)
_	į.	buffer adj layer with dopant with (sulfur or selenium)	MSPĀT: MS-PGEMB;	2001 (06 (10 13:26
			EPD; CPD; Depwent;	
_	O	stop adj zone with dopant with (sulfur or	IBM_TDB MSTAT:	2001 '06"10
	· ·	selenium)	US-PGEUB; EPO; CPO;	.8:26
			DERWENT;	
_	7	(sulfur with selenium with dopant) and	IBM_TDB USFAF:	2001/06/10
		257/\$3.ccls. and emitter\$1) and (257/\$3.ccls. and band adj gap)	US-PGFUB; EPD; JPD;	18:56
			DERWENT; IBM TDB	
		•	· —	

-	44720	ionization energ\$3 with sulfur with selenium	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2001/06/11 07:42
-	44672	ionization energ\$3 with sulfur with selenium with dopant\$1	IBM_TFB USEAT; US-PGEUB; BED; UED; IEPWEUT;	2001 06'11 07:47
=	1	ionization adj energ\$3 with sulfur with selenium with dopant\$1	IBM_TIB USPAT; US-PGPUB; EPO; JPO; DEPWENT;	2001:06/11 07:43
-	2	5574297.pn.	IBM_TIB VSPAT; VS-PGFUB; E20; JPO; DEPWENT;	2001/06/11 07:58
- - - -	2	5359220.pn.	IBM_TOB USPAT; US-PGHUB; EFU; JPO; DERWENT;	2001/06/11 - 00:00
~	3	552805m.pn.	US-PGPUB; EPO; JPO; DEPWENT;	.2301/06/11 08:03
-	1686	depant with phosphorus with type	IBM_TOB USPAT; US-PGPUB; EPO; JEO; DBRWENT;	2001/06/11 09:04
-	1454	depant with phosphorus with n adj2 type	IBM_TIP USPAT; US-PGIUB; EPO; CPO; DEPWENT;	2001,06/11 09:02
_	205	depant with phosphorus with n+	IBM_TIB USEAT; USEAGPUB; BEG; JEG; DERWENT;	2001,06/11 00:10
-	131	(depant with phesphorus with n+) and %pd=19970717	IBM_TIB USEAT; US-PGRUB; EFO; JEO; LEPWENT;	2001 06 !! 09:1:
-	738	257:110 or 257/144 or 257/152 or 257/163 or 257/164 or 257/165	IBM_TIB USPAT; US-PGPUE; ESO; JPC; CERWENT; IBM_TIB	2002/01/26 19:5:
-	1	(257,110 or 257/144 or 257/152 or 257,163 or 257,164 or 257,165) and ((stop adj zone near15 active) near15 (off-state or off adj state))	VSPĀT; VS-PGPVB; EBO; JPO; DEPWENT;	2102+01/26 18:39
-	1	(357/1.0 or 257/144 or 257/152 or 257/163 or 357/164 or 257/165) and ((stop\$4 adj zone near15 active) near15 (off-state or off adm state))	IBM_IPB VSPAT; VS-PGIUE; BPG; CPG; CERWENT;	2002 01 26 19:41
-	1	(257/110 or 257/144 or 257/152 or 257/163 or 257/164 or 257/165) and ((mone nearly active) nearl5 (off-state or off adjistate))	IBM_TIB VSEAT; VS-PGEUB; EFG; JPO; DERWENT;	2002/01/26 19:11
			IEM_TDB	•

				. *
-	Ĵ.	5528058.pn.	USPAT; US-PGPUE; EPC; UPC;	15:28
			DERWENT; IBM TDB	
-	5	5357130.pn.	USEĀT; USEPSHUB;	2000,01/27 12:44
			ESI; JFI; DEPWENT;	
	Ć.	stop\$4 adj zone same dopant same	IBM_TDB USPAT:	2000/001, 27
_	ř.	ON-state or OFF-state or "on state" or "off state")	US-PGPUB; EPO; JPD; DEPWENT;	12:48
_	31	dopant near12 ionization adj energy	IBM_TDB TSPAT;	2002,01/27
		3.	US-PGPUB; Beo; Jeo;	13:58
			DEPWENT;	
_	Ē	eight or mot).ti,ab. and ((dopant or	USPAT;	2302/01/27
		<pre>impurity or impurities) nearl2 (indium or tellurium))</pre>	US-PGPUB; EPO; JPO;	13:41
			DEPWENT;	
-	9	semiconductor.ti,ab. and ((dopart or impurity or impurities) same (indium or	USPAT; US-PGPUB;	2002/01/27 14:21
		tellurium) same ionization)	EPO; JPO; DEFWENT;	
_	ú	(((sulfur or selenium) nearl2 "on-state	IBM_THB USEAT;	2102,01/27
		wolltage") same (dopant or impurit\$3)) and semiconductor.ti,ab.	US-PGPUB; EPC; JPC;	14:23
		semiconductor.er, ab.	DEPWENT;	
-	ş.	cosulfur or selenium) nearl2 ("on-state"	TEM_TOB USPAT;	3002/01/27
		or voltage) same (dopant or impurit\$3)) and semiconductor.tr,ab.	US PGPUB; BPO; JPO;	14:37
			DERWENT:	
-	(;	<pre>((sulfur or selenium) near12 (ionization adj (energy or potential)) near12</pre>	USEAT; US-PGIUB;	2000/01/27 11:A.
		<pre>(impurit\$3 or dop\$3)) same ((on-state or on adj state) adj2 voltage)</pre>	FPO; CPO; DEFWENT;	
_		(ionization )	IBM_TDB USEAT;	2000 01 37
		<pre>aaj (energy or potential()) near12 +impurit\$% or dop??\</pre>		14:46
		Impation	PERWENT;	
-	()	.(selenium or sulfur) near12 on state adj	USPAT; US-PGLUB;	2002 (1 27 14:48
		voltage) and (thyristor or mot or igbt).ti.ab.	EFO; CPO;	L'it • its
			DEPWENT: IBM_TDB	
-	3.5	(selenium or sulfur) and (thyristor or mot or ight).ti,ab.	USPAT; US-PGPUB;	2001 01-27 14:48
			BP1; (TP0; Derwent;	
-	<i>:</i>	(selenium or sulfur) same (dopant or	IBM_TDB USEAT;	2002 01:27
	-	impurit\$3)) and (thyristor or mot or igbt).ti.ab.	US-PGPUB; EFD; JPD;	14:49
		agaren, eta, eur.	DERWENT;	
-	40	(blocking or stop\$4) adj2 (zone or	IBM_TPB VSPAT:	2002/01/27
		layer) same emitter) and thyristor.ti,ab.	TS-PGFUE; EPO; JPO;	15:28
			DERWENT; IBM_TDB	
The second secon				

-	13	((blocking or stop\$4) ad;2 (zone or layer) same emitter; same voltage and thyristor.tr,ab.	USPAT; US-PGPUB; EPO; JPO; DEEWENT;	15:09 15:09
-	0	(((blocking or stop\$4) adj2 (rone or layer) same emitter) same voltage same on state) and thyristor.ti,ab.	IBM_TIB USFAT; US-PGFUB; EPO; UPO; DEPWEUT;	210: 01/27 11:30
-	CI	<pre>(+(blocking or stop\$4) adg2 (zone or layer) same emitter) same voltage same "on") and thyristor.ti,ab.</pre>	IBM_TIB USPAT; US-PGPUB; EPO; (FI; LEMMENT;	2000/01/27 15:50
-	5)	(((blocking or stop\$4) adj2 (zone or layer) same emitter) same voltage) and thyristor.ti,ab. and power	IBM_TLB USPAT; US-PGPUB; BPO; GPD; DEPWENT;	2002/01/27 15:30
~	1.	<pre>()(blocking or stop\$4) adj2 (zone or layer) same emitter) same voltage) and thyristor.ti,ab. and power and (dopant or impurit\$3)</pre>	IBM_THB USPAT; US-PGPUB; EPU; JPD; DERWENT;	2002/01/27 15:49
-	3	5710445.pn.	IBM_TUB VSPAT; VS-PGPUB; EPO; JPO; LEPWENT;	.2002/01/27 15:54
~	1	((selenium or sulfur) hearl2 (dopant or impurity)) and thyristor.ti,ab.	IBM_TUB   USPAT;   US-PGPUB;   EPO; UPO;   DEPWENT;	2002/01/27 15:56
-	Q	((selenium or sulfur) nearl2 ionization adj (potential or energy)) and thyristor	IBM_TIP USEAT; US-PGPUB; BEC; JED; DEPWENT;	2002:01°27 15:57
-	Û	((selenium or sulfur) nearl2 ionization ad) (potential or energy)) and barrier adj layer	IBM_TDB USEAT; US-PGPUB; EPC; JED; DEPWENT;	2000:001 27 15:59
-		(selenium or sulfur) nearl2 ionization adj (potential or energy)	IBM_TOB USEAT; USEAT; USEAGE, EPO; UEO; SEPWENT;	2000-01/37 15:58
-	2	(selenium or sulfur) nearl2 ionization adj (potential or energy) and semiconductor.ti,ab.	IBM_IDB USPAT: US-PSPUB; BPD; UPO; BERWENT: IBM TUB	2600×01627 16:03
-	L	(selenium or sulfur) nearl2 ionization ad) (potential or energy) and (ight or thyristor or mosfet) and semiconductor.ti,ab.	USEAT: US-PGPUB; EPO: UPO: CERWENT: IBM TUB	2.00 01/27 18:04
-	2	(selenium or sulfur) nearl2 ionization adj (potential or energy) and (ight or thyristor or mosfet or semiconductor).ti,ab.	USEAT: US-PGPUB; EPC: GPO; CEPWENT; IBM TOB	2002/01/27 16:05
-		((selenium or sulfur) hear12 (barrier adglayer)) and (ight or thyristor or mosfet or semiconductor).ti,ab.	_	2002/01/27 16:06

				ž
-	g ·	<pre>((selenium or sulfur) near5 (barrier adj layer)) and (ight or thyristor or mosfet or semiconductor).ti,ab.</pre>	USPAT; US-PGPUB; EPO; JPO; DEPWENT;	18:11
-	Ć	((selenium or sulfur) near! (barrier adj layer)) and (ight or mosfet or semiconductir).ti,ab. and thyristor.ti.	IBM_THP USFAT; USFAT; ESC; USFO; DEFWENT;	2 CU 01:27 14:09
-	C	((selenium or sulfur) nearf (barrier adj layer)) and thyristor.ti.	IBM_ILE USPAT; US-PGHUB; EEG; JFO;	2::01::01/27 18::08
-	Ć.	((selenium or sulfür) near! (barrier adj layer)) and thyristor.ti,ab.	DEPWENT; IEM_TDB USPAT; USPGPUB; EPG; JPG;	2002 (1,27 .a:09
_	Ç,	((selenium or sulfur) near5 (barrier adj layer)) and (mot or thyristor or ight).ti,ab.	FERWENT; IBM_TLB USPAT; US-PGPUB; EPG; UPG;	2002/01/27 10:09
	1	((selenium or sulfur) near5 (dopant or impurity) near5 (barrier adj layer))	DEPWENT; IEM_TDB USPAT; US-PGPUB;	2002/01/27 16:12
_	Ć.	((selenium or sulfur) hear5 (dopant or	EPO; JPO; DEPWENT; IBM_TDB USPAT;	2302/01/27
		<pre>impurity) near5 (barrier adj layer)) and silicon adj substrate</pre>	US-PGPUB; EPO; JED; CEPWENT; IBM_TDB	14:13
_	71 -	((selenium ir sulfur) near5 (dopant or impurity)) and silicon adj substrate	USEAT; USEPGHUB; EEC; JEC; CEPWENT; IBM THE	2002/01:27 1+:14
-	Ğ	((selenium or sulfur) near5 (dopant or impurity)) and ionization adj (energy or potential) and silicon adj substrate	USPAT; US-PGPUB; EPO; GPO; DERWENT; IBM TIP	2000/01/27 16:24
-		(low-noise or low adj noise) adj2 semiconductor and power adj2 semiconductor	USPAT: US PGIUS; EPO; UPO; CERWENT; IBM TIB	2 02 01 27 26:26
-	33	([:low-noise or low adj noise) nearS power: nearS semiconductor).ti,ab.	USTAT: USTAT: USTAT: EPO: JPO: DERWENT: IBM TUB	2:02:01/27 28:04
	()	((.low-noise or low adj noise) near5 power) near5 semiconductor).ti,ab. and thyristor	USPĀT; US-PGPUB; EPD; JPD; DERWENT;	3402701727 16:34
_	3	({ low-noise or low adj noise) near5 power) nearf semiconductor adj device).ti, ab.	IBM_IDB USEAT: USEPGEUB; EPD; UPO; DERWENT;	2002/01/27 10:30
	25	((low-noise or low add noise) near5 power).ti,ab. and 257/\$6.ccls.	IBM_TDB USPAT: USPGPUB; EPD; UPD; DERWENT;	2002/01/27 17:05
	 		_IBM_TDB	. 8

	2 '	([low-noise or low add noise) near5 power).tr,ab. and 257/96.ccls. and (thyristor or light or insulated gate add bipolar add transistor or mot)	USPAT; US-PGPUP; EFO; CPC; DEPWENT; IBM TOB	2002/05/02 15:2m
-	2	3p-021055780-\$.did.	USEAT; US-PGIUE; EEC; CPC; DEPWENT; IBM TIB	2002-01/27 17:04
-	458	stop adj zone	USPAT; US-PGPUB; EFG; CPC; DERWENT; IBM TDB	2002/05 01 16:36
-		(atop add zone) and (((257/110) or (257/144) or (257/152) or (257/163) or (257/164) or (257/165)).CCLS.)		2002/05/01 16:30
-		(1257/110) or (257/144) or (257/152) or (257/163) or (257/164) or (257/165)).CCLS.	USPAT; US-PGPUB; EP1; GPO; DEPWENT; IBM TUB	2002/(5,01 20:30
-		buffer adj (layer or film) and (:(257/160) or (257/160) or (257/164) or (257/163) or (257/164) or (257/165)).CCLS.)	USPAT; US-PGPUB; EPO; UPO; DEPWENT; IBM TDB	2002×05/01 17:19
-	29	(buffer adj (layer or film) and ((257/10) or (257/144) or (257/152) or (257/163) or (257/164) or (257/165)).CCLS.)) and (sulfur or sor selenium or se:	USPAT; US-PGPUB; EPO; UPO; DEPWENT; HBM TEB	2002:05:01 17:20
-	C	(:buffer adj (layer or film) and (:buffer adj (layer or film) and (:bf7:112) or (257:152) or (257:163) or (257:164) or (257:163) or (257:164) or selection or selection.	USPAT; US-PGLUB; EPC; CPC; DERWENT; IBM_TLB	2002 (5 01 17:2:
-	3	cabulifor adj (layer or film) and (257 152) or (257 163) or (257/164) or (257 165)).CCLL.(capture of sulfur or sor selection or set) and (buffer same (selection or set) and (buffer same (selection or set) and (buffer same).	USPAT; US-PGPUB; EPG; GPG; DERWENT; IBM_FLB	2002 05/01 17:25
-	ĝ :	(*buffer adj (layer or film) and (*257 111) or (257 144) or (257 152) or (257 153) or (257 153) or (257 153)).CCLS.(*) and (*sulfur or sor selenium or se') and (buffer same (*selenium or se or sulfur))	USEAT: US-PSPUB; EPD; GPD; EERWENT; IBM_TDB	2002 05 01 17:23
_	ji	((puffer adj (layer or film) and (; 2:7/110) or (357/144) or (257/152) or (357/163) or (257/164) or (257/165)).0023.:: and (sulfur or sion selenium or set) and ((buffer nearl5 (45503) or impurit(33)) same ioniz(35)	USPAT; US-PGLUB; EPD; CPD; DERWENT; LBM_TDB	2002/05/01 17:27
-	3	([birfer adj (layer or film) and ([257/10]) or (257/144) or (257/152) or (257/163) or (257/164) or (257/165)).CCLS.() and (sulfur or sor selenium or set) and ((buffer nearl5 (selenium or sulfur)))	USPAT: US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/01

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USPAT;
                                                                                    2002/05/02
77 (US-4717340-$ or US-4760431-$ or
     US-RE32734-3 or US-4851489-$ or
                                                                   US-PGPUB;
                                                                                   11:40
     US-4914496-0 or US-4963972-0 or
                                                                   JPO
    US-5 05211-0 or US-5066704-0 or US-5 05211-0 or US-5401946-0 or US-5401946-0 or US-5404071-0 or US-5444271-0 or US-5444271-0 or US-5444270-0 or US-546709-0 or
    US-5494444-7 ir US-5515418-3 or
US-5528068-8 or US-5543643-8 or
US-5583441-3 or US-5610415-3 or
US-56837848-8 or US-5644150-3 or
     ₩S-5+659195-$ or ₩S-5(91766-$).did. or
     (US-5124772-$ or US-5202750-$ or
US-5217477-$ or US-5248202-$ or
     US-5293054-$ or US-5304921-$ or
     US-5306930-$ or US-5336907-$ or
     US-5365477-$ or US-5371385-$ or
     us-5378993-$ or us-5661314-$ or
us-5679966-$ or us-5684796-$ or
     US-5705835-3 or US-5710445-9 or
     US-5719413-3 or US-5793066-9 or
     US-5796124-$ or US-5844258-$ or 
US-5894149-3 or US-5833355-$ or
     เมื่อ-5 436267-3 จะ ซีรี-6020623-$ จะ
     U3-6154728-$ or V3-RE36818-$ or
     VS-6107649-3).did. or (VS-6111278-3) or
     V3-6111090-0 or V3-6169099-3 or
V3-6198115-0 or V3-6218017-3 or
     US-6271545-$ or US-6278140-$ or
     US-6213485-$ or US-4033958-$ or
     vs-4053921-\$ or vs-4063032-\$ or
     V3-3337782-2 or US-3470036-0).did. or
     (US-20010005024-$ or
     U3-20020024056-$).did. or (JP-06061479-$
     or JF-06151825-$ or JF-01270352-$ or
     \mathtt{JP} = 0.1296370 - \$ or \mathtt{JP} = 0.3070176 - \$ or
     \mathtt{JP} - 0.116874 - \$ or \mathtt{JP} - 04240775 - \$ or
     JP-04317375-\$ or JP-043.7875-\$).did.
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2002/05/01
                                                 USPAT;
2 (7U3-4717940-$ or US-4760431-3 or
  US-RE30734-3 or US-4851133-9 or
                                                 US-PGPUB;
                                                               20:34
  US-4914496-$ or US-4963971-$ or
                                                  EPO; JPO;
  US-5(65211-$ or US-5)68714-$ or
                                                  DERWENT;
   US-4391025-3 or US-5401965-3 or
                                                  IBM TDB
   US-54299:3-$ or US-5444171-3 or
  US-544440772-3 or US-5461.42-3 or
   V3=0477(04-3 ir V3-148671--3 or
  V3-5498444-3 or V3-1525416-3 or
V3-5528008-3 or V3-5543059-0 or
  V3-5569941-3 or V3-1616415-3 or
  US-5637848-$ or US-5644150-$ or
  VS-9659185-$ or VS-5091"66-$).did. or
  (US-6104772-$ or US-5002750-$ or US-5010480-$ or
  US-5293054-$ or US-8 (04+21-$ or
  VS-53084x0-$ ir VS-5336x07-$ or
   VS-5365477-$ ir US-5371585-$ or
  93-5378903-$ or 93-5861314-$ or
93-5679966-$ or 93-5884336-$ or
  V3-5705825-$ or VS-5710445-$ or
  US-5719413-$ or US-1793066-$ or
  us-6790124-$ or us-6944258-$ or
us-6994149-$ or us 6923096-$ or
  US-8936267-$ or US-6020623-$ or
  US-8054708-$ or US-RE36818-$ or
  Vs-6107649-3).dia. or (Vs-6111278-\$) or
   US-6111290-$ or US-6169299-$ or
   US-6198119-$ or US-6018017-$ or
  US-6271545-$ or US-6378:40-$ or
  US-6316485-$ or US-4032768-$ in
  US-4053901-$ or US-406203L-$ or
  US-3337743-$ or US-3470036-$).did. or
   (US-2001)005024-$ or
  US-20020:24056-$).did. or (JP-06061479-$
  or JP-04151825-$ or JP-01270352-$ or
  JP-02394-70-$ or JP 03070176-$ or
  JP=03116+74+\$ or JP=04240775+\$ or
  JP = 0.4317.75 - $ or JP = 0.4357875 - $ (.did.) and
   (block$3 or buffer or 3*op$4) adj (region
```

or film or layer) and ionization

```
2002/05/01
1 = ((US-4717940-\$) \text{ or } US-4760431-\$) \text{ or }
                                                          USPAT;
   US-AE32784-$ or US-4851889-$ or
                                                           US-PGPUB;
                                                                           20:43
   VS-4914496-0 or VS-496:972-0 or
                                                           EPO; JPO;
   VS-5165211-0 or US-506-704-0 in
VS-5381015-0 or US-5401,055-0 in
                                                           DERWENT;
                                                           IBM TDB
   V3-5429453-3 or V3-5444171-3 or
   VS-5444. "3-3 or VS-648.1142-3 or
   #8-5477 %44-$ or #8-6484709-$ or
   MS-8498-M4-0 or MS-862:M16-0 or MS-8620:M8-0 or MS-8640439-0 or MS-8640439-0 or MS-8644150-0 or MS-8644150-0 or
   ₩3-9659185-$ or ₩3-5091766-$).did. or
   aus $124772-$ or US-52 1750-$ or US-51141102-$ or
   US-5093 04-0 or US-5304M21-3 or
   US-5306930-2 or US-5336907-3 or
   US-5365477-0 or US-5371485-0 in
   US-5379903-2 or US-5461314-3 or
US-5479966-3 or US-5484306-3 or
US-5705835-3 or US-5713445-3 or
   US-5719413-$ or US-5793066-$ or
   US-5796124-0 or US-5844258-3 or US-5894149-0 or US-5892055-0 or
   VS-0936267-$ or VS-6020623-$ or
   US-6054708-$ or US-RE36818-$ or
   VS-4107449-3).did. or (US-6111278-$ or
   TS-A111290-$ or US-6169299-$ or US-6198115-$ or US-6218017-$ or US-6278140-$ or US-6278140-$ or
   VS-6313485-$ or VS-4052959-$ or
   \text{US}-4953901-\$ or \text{US}-4960932-\$ or
   US-3337782-9 or US-347:0036-$).did. or
   (US-30010005024-0 or
   #$-20020024056-$).did. or (#P-06061479-$
   or JP-06151325-$ or JP-01270352-$ or
   JP-02296070-$ or JP-03070176-$ or
   JP-03116M74-$ or JP-04240775-$ or
   JP=04317375-\$ or JP-34357975-\$).did.) and
   sblock$3 or buffer or stop$4) adj (region
   or film or layer) and (energy adj level
   or band adj2 gap)
```

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2002/05/01
0 ((US-4717940-3 or US-4760431-3 or
                                                USPAT;
  US-RE32784-$ or US-4851889-$ or
                                                 US-PGPUB;
                                                              20:45
  บร-491449ตี-३ or US-4 (63972-३ or
                                                 EPO; JPO;
  US-8065211-$ or US-5668704-$ or
                                                 DERWENT;
                                                 IBM TDB
  US-8:491036-3 or US-5401498-3 or
  US-6429 (63-3 or US-1444171-3 or
  Ws-8444.703-$ ir U3-8461.42-0 ir
  US-5477964-3 or US-5486709-0 or
  US-6498-64-3 ir US-8628916-3 ir
US-6628168-3 ir US-8648669-3 ir
  US-1569441-3 or US-1610415-4 or
  US-8637488-3 or US-8644186-2 or
  VS-5059185-$ or VS-5001766-$).did. or
  (US-f124772-$ or US-5102790-$ or
  73-5.10432-$ or US-5045002-$ or
  US-5193054-$ or US-5304821-$ or
  უვ-გადგოვდ-ა ir US-გვვგოდ7-ბ ir
  V3-5>65477-$ or US-5371385-$ or
  VS-8078903-3 or US-5661314-$ or
VS-8679966-3 or US-5684306-$ or
  US-5705835-$ or US-5710445-$ or
  US-5719413-$ or US-5793066-$ or
  US-5796124-3 or US-58444559-$ or
  V3-5894149-$ or US-5903088-$ or
  US-5036267-$ or US-6020623-$ or
  US-6054728-$ or US-RM36818-$ or
  US-6107643-$).did. or (US-6111278-$ or
  US-6111390-$ or US-6169399-$ or 
US-6198116-$ or US-6718217-$ or
  U3-6271945-$ or U3-6278140-$ or
  US-6313485-$ or US-4032758-$ or
  US-4053321-$ or US-406232-$ or
  U_{S-3/3}7782-3 or U_{S-3/4}70036-4).did. or
  FTS-0000005024-$ or
  or JP-06151325-$ or JP-01270352-$ or
   JP-02296370-$ or JP-03070176-$ or
   J_{\rm P} = 0.116874 - \$ or J_{\rm P} = 0.4040775 - \$ or
  JP = 0.4517375 - \$ or JP = 0.4357875 - \$).did.) and
   plock$3 or buffer or stop$4) adj (region
  or film or layer) nearly sindium or
  tellurium or selenium of sulfur or in or
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5 (± )

```
USPAT;
                                                                    2002/05/01
2 (US-4717940-3 or US-4760431 $ or
                                                                     20:49
   US-RE32784-$ or US-48518+9-$ or
                                                      US-PGPUB;
   US-4914496-$ or US-4963972-$ or
                                                      EPO; JPO;
  WS-50 65211-3 or WS-5068704-3 or WS-508083-3 or WS-5429953-3 or WS-5444771-3 or
                                                      DERWENT;
                                                      IBM TDB
   VS-0444272-$ or VS-6481242-$ or
   TS-1477064-3 or US-1486709-3 or
   VS-5498884-3 on US-55258468-4 or
VS-5528058-4 on US-5543889-4 or
   V3-5169941-3 or V3-1619415-3 or
   US-5637899-3 or US-5644150-0 or
   \label{eq:constraints} \forall \$-\$6\$91\$\$-\$ \ \ \text{or} \ \ \  \  \forall \$-\$(91766-\$) \ . \\ \text{did. or} \ \ 
   (US-5124772-0 or US-50000100-0 or US-5210472-0 or US-5245202-0 or
   US-5293054-$ or US-5504821-$ or
   US-5306930-$ or US-8336907-$ or
   US-5365477-$ or US-5371345-$ or
   #8-5378903-$ or #8-5661314-$ or
   VS-5679966-$ or VS-5684306-$ or
   VS-5705835-4 or VS-5710445-3 or
   US-5719413-$ or US-5793066-$ or
   US-5796124-$ or US-5844258-$ or
US-5803149-$ or US-5923055-$ or
   US-5936267-$ or US-6020623-$ or
   US-6054728-$ or US-RE36818-$ or
   VS-8107649-$).did. or (US-6111278-$ or
   US-6111390-$ or US-6169299-$ or
US-6198115-$ or US-6218217-$ or
   US-8271545-$ or US-8278140-$ or
   US-6313485-$ or US-4032458-$ or
   V3-3337782-3 or V3-3470036-3).did. or
   (US-20010005024+$ or
   US = 20020024056 = \$).did. or (JP = 06061479 = \$
   or JP-06151825-$ or JP-01270352-$ or
   JP-01294370-$ or JP-03070176-$ or
   JP-03116874-$ or JP-J4240775-$ or
   JP=04317375-\$ or JP-04357975-\$).did.) and
   (block$3 or buffer or stop$4) adj (region
   or film or layer) and (indium or
   tellurium or selenium of sulfur or in or
```

S = )

```
2002/05/01
2 ((US-471734)-$ or US-4760431-$ or
                                                         USPAT;
   US-RE42784-1 or US-48518*9-9 or
                                                         US-PGPUB;
                                                                        20:50
   #3-49.4436-$ or US-4963972-$ or
                                                         EPO; JPO;
  TS-5045211-2 or TS-50487.4-3 or TS-50487.4-3 or TS-5041005-2 or TS-54444771-2 or TS-54444272-2 or TS-54444272-2 or
                                                         DERWENT;
                                                         IBM TDB
   76-8477004-2 in 78-8486709-2 or
  TS-5449MM4-0 ir TS-5625-16-0 or
TS-552398-0 or TS-5643649-0 or
TS-5589941-0 or TS-5610416-0 or
   M3-1637-99-3 or M3-5644150-4 or
   US-$653185-$ or US-5691766-$).did. or
  *US 5.24772-$ or US-6262760-$ or US-6262760-$ or US-6262760-$ or US-5248230-$ or US-5204821-$ or
   US-3306930-2 or US-5336907-2 or
   US-5365477-¢ or US-5371396-¢ or
   US-8378903-$ or US-5661314-$ or
US-8679966-$ or US-5684306-$ or
   MS-5705835-3 or US-5710445-3 or
   MS-5719413-$ or MS-5793046-$ or
   TS-5796104-3 or US-5844058-3 or
US-5894149-3 or US-5844058-3 or
   US-5936147-$ or US-6020623-$ or
   US-6107649-$).did. or (US-6111278-$ or
   US-6111240-$ or US-6169299-$ or
   US-6198115-$ or US-6218317-$ or
   US-6271545-$ or US-6278140-$ or
   US-8313445-$ or US-4032958-$ or
   US-4053901-$ or US-4062032-$ or 
US-3337792-$ or US-347(036-$).did. or
   .US-20010005024-$ or
   WS-20020024056-$).did. or (JP-06061479-$
   or JP-06151825-$ or JP-0.270352-$ or
   JP-02296370-$ or JP-0307:176-$ or
   JP-03115274-$ or JP-04243775-$ or
   TP=04 \times 17.375 - \$ or JP=04357875 - \$).did.) and
    block$3 or buffer or stop$4) adj (region
   or film or layer) and (indium or
   tellurium or selenium of sulfur or in or
   se or te)
```

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2002/05/01
0 ((US-4717940-3) or US-4760431-3 or
                                                  USPAT;
  US-RE327*4-$ or US-4851889-$ or
                                                  US-PGPUB;
                                                                20:50
  US-4914436-3 or US-4963972-$ or
                                                  EPO; JPO;
  US-10650.1-9 or US-5048704-9 or
                                                  DERWENT;
  V3-1481 N.5-3 or V3-5401 (6)-3 or V3-1429 (6)-3 or V3-54442 V.-3 or
                                                  IBM TDB
  V3-1444072-3 ir V3-54-1141-3 ir
   73-3477 (84-3 ir 73-5446764-3 ir
  VS-64989M4-0 or VS-5505918-0 or
VS-9628988-0 or VS-564383 --0 or
  V3-%569841-3 or V3-5%10416-3 or
  US-5657-48-$ ir US-5644150-$ ir
   VS-5659185-3 or VS-5 (9176--3) .did. or
   (US-512:772-$ or US-5200750-$ or
   VS-9010470-⊋ ir US-5048000-$ or
  US-5093054~3 or US-5304821-3 or
  VS-5306920+$ or VS-5306407-$ or
  US-1366477-$ or US-5371389-$ or
  US-1379903-$ or US-5601314-$ or
  ซุร-พศ799444-$ or ซร-5484304-$ or
  US-5705805-$ or US-5710445-$ or
  VS-57194:3-$ or VS-5793366-$ or
   us-5796134-¢ or Us-5844388-¢ or
   75-5894143 $ ur US-5423481-$ or
  78-5936347-$ or US-6030423-$ or
  US-A084728-$ or US-RE2AV18-$ or
  US-6107649-$).did. or (US-6111278-$ or
  vs-A111290-$ or V3-61A9299-$ or
vs-A199115-$ or V5-6218217-$ or
  US-6271545-$ or US-6278140-$ or
  VS-4313485-$ or VS-4333368-$ or
  US-4053921-0 in US-4062030-3 or
  \forall 3\text{--}3.(37782\text{--}3) \text{ or } \forall 5\text{--}3470034(\text{--}3) \text{.did. or }
  (US-2))14:005024-2 or
  US-20020024056-$).did. or (JP-06061479-$
  or JP-04151825-$ or JP 01270352-$ or
  JP-02234270-$ or JP-03075176-$ or
  JP-03116874-$ or JP-04040475-) or
  (block$5 or buffer or stop$4) adj (region
  or film or layer) and (band near2 gap)
```

		(UU-4717440-3 or US-4760431-3 or US-823744-5 or US-4851849-3 or US-4914436-5 or US-4962973-3 or US-4065211-3 or US-5066714-3 or US-63211-3 or US-5461975-3 or US-642197-3 or US-642197-3 or US-6424973-3 or US-64443711-3 or US-6424973-3 or US-6434973-3 or US-6434973-3 or US-6434973-3 or US-6434973-3 or US-663944-3 or US-6639441-3 or US-663944-3 or US-663949-3 or US-6394931-3 or US-6534931-3 or US-6534931-3 or US-6534931-3 or US-6534931-3 or US-6334931-3 or US-6334931-3 or US-6334931-3 or US-6334931-3 or US-6334931-3 or US-6334931-3 or US-6374943-3 or US-6374943-3 or US-6374943-3 or US-6374943-3 or US-6374943-3 or US-6374943-3 or US-6794143-3 or US-644439-3 or US-6794143-3 or US-644439-3 or US-634739-3 or US-634739-3 or US-634739-3 or US-634739-3 or US-634739-3 or US-634739-3 or US-6313495-3 or US-6319317-3	USPAT; US-PGPUP; EPG; UPG; PERWENT; IBM_TDB	2102/05/01
-	457	foreign adj atom		2002/05/02 09:36
-	58	foreign adj atom and 2-1 08.5515.	USFAT; US PGIUE; EPG; CPC; DEPWENT; IBM TUB	2002,05 102 09:37
- 3	3447	stop\$4 ad: (zone or region br layer or film) and 257/\$6.pdls.	MSFAT;	2002,05 102 09:40
- 2	2240	istop or stopping) adjictore or region or layer or film: and 257 34.cols.		2002:05:102 09:41
-	30	ist bp or stopping) adj zime and 357706.pols.	USPAT;	2002/ð5 102 11:37
	9	(stop or stopping) adj zone and 257/\$6.pdls. and thyristor	USPAT; US-PGFUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/02 09:44

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USPAT;
                                                                      2002/05/02
77 (US-5661314-$ or US-5679966-$ or
    US-5484306-$ or US-570583:-$ or
                                                        US-PGPUB;
                                                                      11:39
    US-5710445-$ or US-5719413-3 or
                                                        JPO
    US-579:064-3 or US-1794124-3 or
US-5844288-3 or US-5894144-3 or
    VS-8423088-$ or VS-8934267-2 or
VS-6621623-$ or VS-6664728-2 or
    V3-RE16818-$ or V3-6107644-$ or
    T3-0111278-3 or T3-0111290-3 or
T3-0103290-3 or T3-0198115-3 or
T3-0103217-3 or T3-0271846-3 or
T3-0278140-3 or T3-0213485-0 or
    #3-5444271-$ or #3-5444273-$).did. or
    (US-5843609-$ or US-5569911-$ or
    US-5+13415-3 or US-5461340-2 or
    US-5477064-3 or US-5486709-3 or
    US-5498884-$ or US-5525818-$ or
    US-5524058-$ or US-5378903-$ or
    US-5371385-$ or US-5365477-$ or
    #3-5+77888-$ or #3-5644150-$ or
    US-5689185-$ or US-5401985-$ or
    Vs-5336907-$ or US-5381025-$ or
    VS-5429953-$ or US-5304821-$ or
    tts-5092054-$ or tts-504520L-$ or
    US-5010430-$ or US-5000750-$ or
    US-5134770-$ or US-5091766-$ or
    VS-5064764-$).did. or .VS-5065211-$ or
    VS-4963972-$ or VS-4914494-$ or VS-4851889-$ or VS-RB32784-$ or
    US-4750431-$ or US-4717340-$ or
    US-4062032-$ or US-4083921-$ or
    US-4033358-$ or US-3470036-$ or
    US-3337783-$ or US-5306930-$).did. or
    (US-200110005024-$ or
    VS-20020024056-$).did. or (JP-06151825-$
    or JP-06061479-$ or JP-04357875-$ or
    JP=0.4317375-\$ or JP=0.4.149775-\$ or
    JP-03.16874-$ or JP-03070176-$ or
    JP-02296370-\$ \text{ or } JP-01270352-\$).did.
```

```
2002/05/02
77 (US-5661314-$ or US-5679966-$ or
                                                        USPAT;
    US-5684306-$ in US-5705935-$ or
                                                         US-PGPUB;
                                                                       11:39
    US-5710446-3 ir US-5719413-3 or
                                                         JPO
    US-5793066-0 ir US-5796124-0 or
US-58444288-0 ir US-5894149-0 ir
    US-590 (154-4 or US-590-0067-1 or
    บระสานแล้ว (-$ เท บระสานสานสาน
    US-RE/6914-3 or US-6107640-0 or
    73-6.11278-0 or 03-61.1290-0 or
73-6167299-0 or 03-6198115-0 or
    MS-6019217-$ or US-6071545-$ or
    93-6379140-3 ir US-6313485-0 ir
    V3-5444271-$ ir V3-5444171-$).did. or
    (US-55436)9-$ or US-5-69941-$ or
    VS-5610418-3 or US-5461848-3 or
    VS-5477064-$ or VS-5486709-3 or
    TS-5498884-$ or US-5825814-3 or
    US-582-058-$ or US-5878903-$ or
    US-5371395-$ or US-5365477-$ or
US-5673888-$ or US-5644160-$ or
    MS-5689198-3 or US-5401988-0 or
    US-5326907-$ or US-5381025-$ or
    VS-5376307-5 or 05 05 04/21-0 or
VS-5427953-5 or US-5704/21-0 or
- 0504054-3 or US-5245262-3 or
    vs-5010432-3 or vs-5202750-3 or
vs-5121772-3 or vs-5091766-3 or
    VS=50.64704=3).did. or (VS=50.65211=3) or
    US-4963972-$ or US-4914496-$ or
    US-4851989-$ or US-RE32784-$ or
    VS-4760431-$ or US-4717940-$ or
    US-4002030-0 or US-4053921-0 or
    VS-4020958-$ or VS-3470036-$ or
VS-3337730-$ or VS-5306930-$).did. or
    (US-20.110005024-$ or
    \forall s=2001.0024056-\$1.did. or (JP-06151825-$
    or JP -6061479-$ or JP-04357875-$ or
    JP=04317375=\$ or JP=041140775=\$ or
    JP-0:116374-$ or JP-03070176-$ or
    JP-022\pm6370-\$ or JP-01270352-\$).did.
```

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18 ((US-5661314-$ or US-5679966-$ or
                                                        USPAT;
                                                                       2002/05/02
                                                                       13:24
    US-5684304-$ or US-5709835-$ or
                                                        US-PGPUB;
    US-871044%-3 or US-5710413-3 or
                                                        JPO:
    US-579306A-3 or US-5795124-3 or
US-5844255-3 or US-5894149-3 or
    US-1920-081-$ ir US-893-0267-$ or
    #3-002002:-$ or #3-6004728-$ cr
    US-RHUM918-3 or US-8107849-3 or
    US-61.1274-2 or US-61.1290-3 or
US-61.4294-2 or US-61.49115-2 or
US-6214317-2 or US-6271545-3 or
US-6279140-2 or US-6213485-3 or
    Vs-5444271-$ or Vs-5444272-$).did. or (Vs -545629-$ or Vs-569941-$ or
    VS-54810415-0 or VS-5481242-3 or
    US-5477064-$ or US-5486709-$ or
    US-5499984-3 or US-5525916-$ or
   VS-5509058-0 or VS-5378303-0 or
VS-5371385-0 or VS-5365477-0 or
VS-5677888-0 or VS-5644150-0 or
    US-5659195-0 or US-5401999-3 or
    #3-5337907-3 or #8-5341025-3 or
    US-5409353-3 or US-5304921-3 ti
US-5093054-3 or US-5045232-3 or
    US-801:430-3 or US-8002780-3 or
    US-5124772-0 or US-5091766-0 or
    US-5068704-3).did. or (US-5065211-$ or
    US-4963972-3 or US-4914496-3 or
    US-4851889-3 or US-RE30784-3 or
    US-4760431-$ or US-4717940-$ or
    U3-4.6333-3 or US-4083931-3 or
    US-4933958+$ or US-3470036+$ or US-3337783-$ or US-5306936-$).did. or
    (US 00010t0f024-$ or
    or JP-06061479-$ or JP-04357875-$ or JP-04017375-$ or
    JP-70116874-$ or JP-03070176-$ or
    JP-72246370-$ or JP-01270352-$).did.) and
    ((dop$% or impurit$3 or donor or
    acceptor) near12 (carbon or c or titanium
    or 't or se or selenium of or or chromium
    or ta or tantalum or os or desium or ba-
    or barium or sulfur or s or mangenese or
    mn or pt or platinum or au or gold or
    silver or ag) :
 3 ("3953243").PN.
                                                                       2002/05/02
                                                        USFAT;
                                                        US-PGPUB;
                                                                      13:05
                                                        EPO; JPO;
                                                        DEF.WENT;
```

IBM\_TDB

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2002/05/02
                                                       USPAT;
0 (TUS-5661314-$ or US-5673966-$ or
   US-5684306-$ or U3-5705835-$ or
                                                        US-PGPUB;
                                                                      13:26
   US-5710445-3 or US-5714413-$ or
                                                        JPO
   US-5793(66-3 or US-57961/4-$ or
   US-584425H-3 ir VS-5894140-$ or
US-590005H-3 or VS-5984240-$ or
   US-602(623-3 :r US-605471)-3 or
   US-RE36919-3 ir VS-6117649-$ or
  US-61.1278-3 :r US-61112.00-3 or
US-61.0290-3 :r US-6104111-3 or
US-621921U-3 or US-627.543-3 or
   US-6279140-$ or US-6315495-$ or
   V3-5444271-3 or V3-5444277-3).did. or
   (US-5543639-$ or US:5569941-$ or
   US-5618415-$ or US-5461841-$ or
   US-5477(64-$ or US-5486709-$ or
   US-5498984-$ or US-5529818-$ or
   US-5518(58-$ or US-5378903-$ or
   US-5371385-$ dr US-5366407-$ or 
US-567798-$ or US-5644180-$ or 
US-5659185-$ or US-5401985-$ or
   US-5336707-0 or US-5381025-0 or
   US-5429953-0 or US-5394921-0 or
   US-5293054-$ or US-524520Q-$ or
   #3-52:0432-$ or #3-5200780-$ or
   US-5104770-3 or US-5091766-$ or
   Us=5069704+3).did. or Us=5065211+$ or
   US-4963972-3 or US-4914196-0 or 
US-4851889-3 or US-RB30784-0 or
   US-4780431-3 or US-4717940-3 or
   V3-400203D-$ or US-40539D1-$ or
   US-4002958-$ or US-3470036-$ or
US-3307780-$ or US-5306300-$).did. or
   rUS-2001(005024-$ or
   73-2(02)(24)56-$).did. or (JP-06151825-$
   or CP-06061479-$ or CP-01357875-$ or
   #P-04517375-$ or JP-04.140775-$ or
   JP-03116874-$ or JP-03070176-$ or
   \text{TP-}(2296370-\$ \text{ or JP-}01..77352-\$).did.) and
   (H) (barium or desium) nearl2 (dop$3 or
   impurit$3)) near12 thyristor)
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3 ({US-5661314-$ or US-5679966-$ or
                                                          USPAT;
                                                                         2002/05/02
      US-5684306-$ or US-5705835-3 or
                                                           US-PGPUE;
                                                                         14:32
      \text{Us-57.0445-3} or \text{Us-5719413-3} or
                                                           JPO
      US-5703066-3 or US-5796124F3 or US-58444258-3 or US-5844140-3 or
      US-5403064-3 or US-5946267-3 or
US-6400624-3 or US-6434784-3 or
      UP-REM6818-$ or VE-6107649-$ or
      US-6.11278-3 or US-6111290-3 or US-6.149294-3 or US-6198115-3 or US-621821/-3 or US-6271548-3 or
      US-6278140-$ or US-6313485-3 or
      Us-5444271-3 or Us-5444272-3).did. or
      (US-56436)9-$ or US-5669941-$ or US-561641641-$ or US-546141645 or US-546140-$ or
      US-5498984-3 or US-5525816-3 or
      US-532805M-3 or US-537890G-3 or
      VS-5371395-$ or VS-5365477-3 in
VS-5637898-$ or VS-5644150-$ or
      US-5850195-$ or US-5401985-$ or
      US-5336307-$ ir US-5381025-$ or
      US-5409953-3 or US-5304021-3 er
      US-5093054-$ or US-5245000-$ or
      US-5210430-$ or US-5202750-$ or
      US-5104770-$ or US-5091766-$ or
      $VS-5068704-$).did. or $VS-5065211-$ or
      US-4963972-$ or US-4914496-$ or US-4851889-$ or US-RE32784-$ or
      us - 4760431 - 3 or us - 4717940 - 3 or
      U3-4062033-3 or US-4053 €1-$ or
      US-4008958-3 or US-3470036-3 or
      US=3337790-3 or US=5306730-3).did. or
      rUS-20010005024-$ or
      Us=20023924056-\$).did. or (JP-06151825-$
      or 3P - 06061479 - $ or <math>3P - 01057875 - $ or
      CP = 0.4317375 - \$ or JP = 0.4240775 - \$ or
       JP-03116974-$ or JP-03070176-$ or
      JP = 0.2296370 - $ or JP = 0.127.352 - $).did.) and
       (silicon adj substrate nearl2 thyristor)
                                                                         2002/05/02
   2 ("6043112").PN.
                                                           USPAT;
                                                           US-PGPUE;
                                                                         14:33
                                                           EPO; JPO;
                                                           DEFWENT;
                                                           IBM TEB
                                                                         2002/05/02
   2 ("604 (112").PN.
                                                           USEAF;
                                                           US-PGPUB;
                                                                         15:27
                                                           EPO; JPO;
                                                           DERWENT;
                                                           IBM FDB
                                                                         2002/05/02
1421 emitter and igbt and power and switching
                                                           USEAT,
                                                           US-PGPUB;
                                                                         15:28
                                                           EPO; JPO;
                                                           DEEWENT;
                                                           IBM TDB
                                                                         2002/05/02
                                                           USPĀT;
  40 emitter adj region and ight.ti,ab. and
                                                           US-PGFUD;
      power adjl device and switching
                                                                         15:29
                                                           EPO; JPO;
                                                           DERWENT:
                                                           IBM TDB
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